X22C SAFETY CHECKLIST				N	BROOKHAVEN NATIONAL LABORATORY NATIONAL SYNCHROTRON LIGHT SOURCE
Rev: B	Effective: 10/22	2/04 Page 1 of		1 1	Number: LS-SCL-0050
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Original signatures on file

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ON THE X21 SIDE

ON THE AZI SIDE
 □ 1. Valid Padlock Index and log, no locks open. □ 2. Exclusion Zone (EZ #1) between Isolation Valve and Bremsstrahlung shield (BS #1). □ 3. Bremsstrahlung shield (BS #1) in place and banded see photo 1. □ 4. Exclusion Zone (EZ #2) downstream of Bremsstrahlung shield (BS #1) □ 5. Vacuum Bellows #1 wrapped in lead downstream of Bremsstrahlung shield (BS #1). □ 6. Vacuum Bellows #2 wrapped in lead upstream of Bremsstrahlung shield (BS #2). □ 7. Bremsstrahlung shield (BS # 2) in place and banded see photo 2. □ 8. Vacuum Bellows #3 wrapped in lead downstream of Bremsstrahlung shield (BS #2).
ON THE X23 SIDE
 9. Exclusion Zone (EZ #3) upstream of Bremsstrahlung shield (BS #3). 10. Bremsstrahlung shield (BS # 3) in place and banded see photo 3. 11. Water cooled Beryllium window #1C wrapped in lead downstream of BS #3. see photo 3A 12. Vacuum Bellows #4 wrapped in lead downstream of BS #3. see photo 3A 13. Mask and Slit Tank wrapped in lead. See photo 3B 14. Vacuum Bellows #5 wrapped in lead upstream of BS #5. see photo 3B 15. Exclusion Zone (EZ #4) upstream of Bremsstrahlung shield (BS #5). 16. Bremsstrahlung shield (BS # 5) in place and banded see photo 4. 17. Vacuum Bellows #6 wrapped in lead downstream of Bremsstrahlung shield (BS #5). 18. Bremsstrahlung shield (BS # 6) in place and banded see photo 5. 19. Exclusion Zone (EZ #5) downstream of Bremsstrahlung shield (BS #6). 20. Bremsstrahlung shield (BS # 7) in place and banded and upstream scatter shielding. see photo 6 21. Water cooled Beryllium window #2C wrapped in lead upstream of Monochrometer tank. 22. Lead skirt and leaded Plexiglas on viewport on Monochrometer tank.(At 10 o'clock position) 23. Lead skirt on feedthrough flange on Monochromator tank.(At 4 o'clock position) 24. Exclusion Zone (EZ #6) upstream of Bremsstrahlung shield (BS #8). 25. Bremsstrahlung shield (BS # 8) in place and banded see photo 7. 26. Exclusion Zone (EZ #7) downstream of Bremsstrahlung shield (BS #8). 27. Vacuum Bellows #7 wrapped in lead downstream of Bremsstrahlung shield (BS #8).
INSIDE OF THE X22C HUTCH
 □ 28. Leaded Plexiglas window where beam tube enters the hutch is in place. □ 29. Bremsstrahlung shield (BS # 9) in place and banded outside of hutch see photo 8.
USER SYSTEM CHECKS
$\ \square$ A. Monochromator tank pressure< 2x10-6 Torr. Pressure indicated on ion pump controller.
Checked by: Date:
OPCO: Date: